

ABSTRACT

Disclosed are a method of producing a fuel cell
5 separator. In this method, dry granules of a composition
for a fuel cell separator mainly containing a conductive
material, a binder, and an additive are produced by mixing
raw materials including at least the conductive material,
the binder, and the additive, granulating the resultant
10 mixture to obtain granules, and drying the granules. The
dry granules may be further sized. Then, the granules are
packed in a mold, and hot-press molded. This method is
characterized in that the granules have a residual volatile
matter content in a range of 4 wt% or less, and an average
15 particle size in a range of 200 to 700 μm (60 to 160 μm for
the sized granules) and a specific particle size
distribution. With this method, a fuel cell separator
having a high elasticity, an excellent dimensional accuracy,
and a high gas non-permeability can be produced with no
20 molding failures, accordingly, with a uniform quality.
Further, a solid polymer electrolyte fuel cell having a high
gas sealing characteristic and an excellent impact
resistance can be produced by using the above high quality
fuel cell separators as part or all of separators in the
25 fuel cell.